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*Written & issued by Michell Instruments Ltd.*

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## **PRESS RELEASE**

### **Compact chilled mirror hygrometer measures down to -90°C with no external cooling**

The S8000RS from Michell Instruments has proved itself as a 'workhorse' in many calibration laboratories and industrial settings.

The [S8000 RS Precision Chilled Mirror Hygrometer](#) measures dew points down to -90°C (0.1ppm<sub>v</sub>) with an accuracy of ±0.1°C. However, unlike many other chilled mirror hygrometers in this class, no additional external cooling equipment is needed to accurately reach these dry dew points. Designed to fit into a standard 19" rack, the S8000 is the most compact, convenient and – because it doesn't need extra equipment to work – the most cost effective hygrometer in its class.

This compact design was possible because of a sophisticated new optical system that detects very small changes in moisture condensed on the mirror surface. This guarantees high sensitivity and fast response when measuring low dew points.

Although referred to as 'dew-point temperature', chilled mirror hygrometers most often measure the frost point because the temperatures are below freezing. However, in some conditions, liquid water can exist as 'super-cooled water' in temperatures as low as -40°C. Because the difference in condensing temperature between water and ice can be as much as 10% of the reading, it's essential to know which phase you are measuring. The S8000RS uses Frost Assurance Technology (FAST) to ensure that ice, not liquid water, is present on the mirror surface at low temperatures to ensure that your measurements are always a known quantity.

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### **Notes**

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## **About Michell Instruments**

[Michell Instruments Group is a worldwide leader in the field of moisture and humidity measurement solutions.](#) With four decades experience, Michell designs and manufactures a wide range of sensors, instruments and customized systems capable of measuring dew-point, humidity and oxygen in applications and industries as diverse as compressed air, power generation, petrochemical, oil and gas, food processing and pharmaceutical. Michell's innovative products make processes cheaper, cleaner, more energy efficient and safe.

The Group has multiple manufacturing locations across Europe with their international headquarters located in Ely, UK and a North America sales and service headquarters located in Rowley (MA). It has its own facilities in 10 countries with an extensive network of factory trained application and service engineers, subsidiaries and distributors stretching across 56 countries.

<http://www.michell.com/uk>